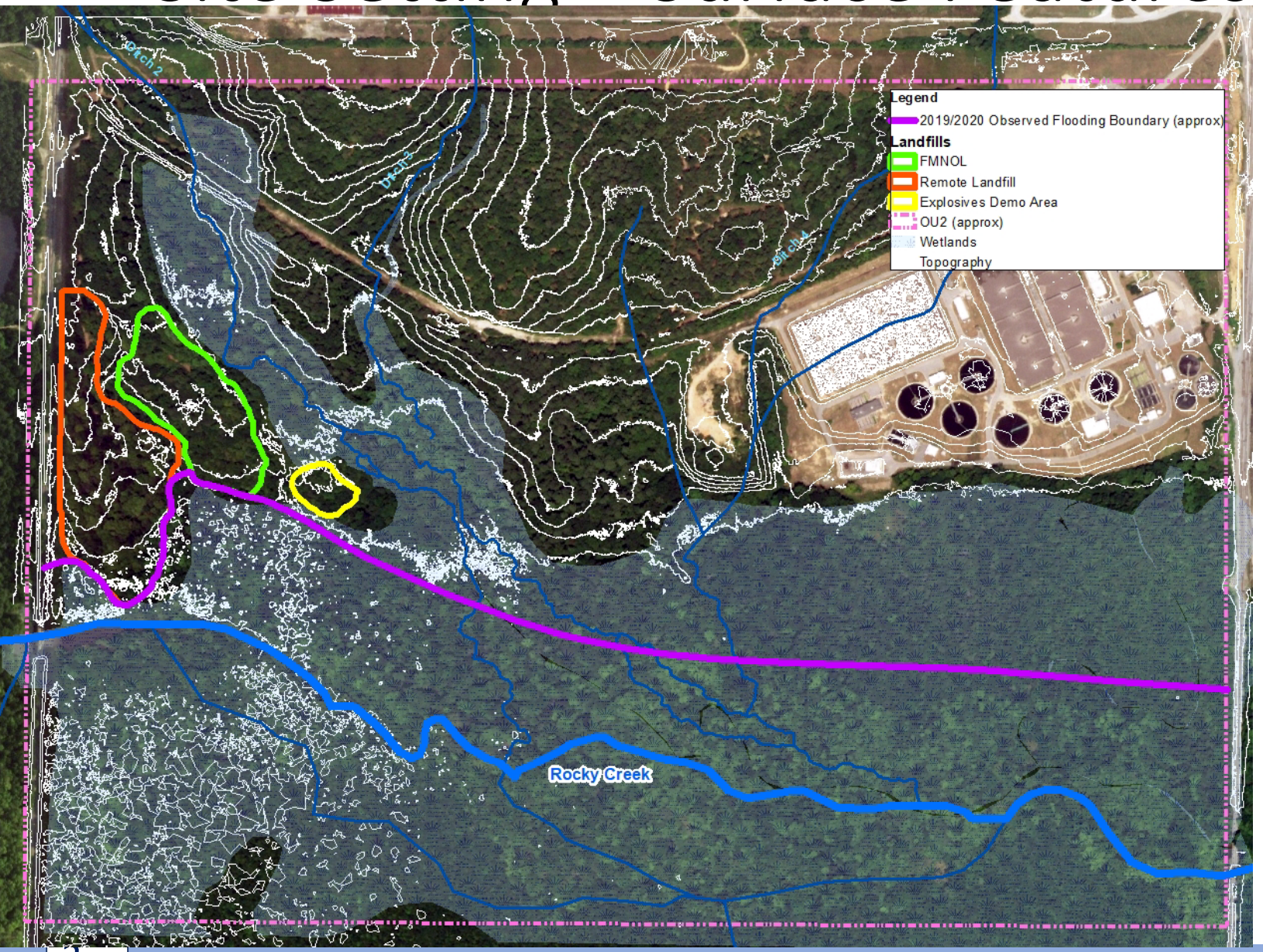
AWI OU2 Superfund Site

Technical Meeting #2:
Preliminary RI Results & Proposed Path Forward
July 8, 2020

Agenda

- RI Work Plan Elements
- Fish Collection Memo
- Preliminary Findings
- Proposed Additional Sampling
- Path Forward / Schedule

Site Setting – Surface Features



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Initial RI Work Plan

Completed Field Work – Have Analytical Results:

- Soil Sampling – ISM (21 Sampling Units)
- Sediment Sampling – ISM (15 Sampling Units)
- Surface Water – Grab samples (10 locations)
- Seep – 1 Grab sample
- Groundwater – 21 monitoring wells sampled by EPS, additional by ERM

Potentially Complete – Not Analyzed Yet:

- Fish – composite testing for human consumption

ISM Sampling: 3 replicate samples at each sampling unit. Each replicate comprised of 30 aliquots.

Fish Collection Memo

- Fish Collection Effort
  - 350 fish specimens caught and processed
  - 1,000 hours of collection effort
- Memo submitted on June 15 to EPA outlining strategy for fish compositing
  - Consolidation of collection zones into 3 reporting zones
  - Composite fish with similar feeding and habitat behaviors (e.g., bream species)
  - Composite “same-species” where there is an abundance
  - Sample individual specimens where there is a limited number available
- Awaiting EPA approval of this strategy in order to send specimens to laboratory for analysis

Preliminary Findings for Soil/Sed/SW/GW

- No discernable distribution pattern of COPCs across the site in soil and sediment
  - Elevated conditions
- Risk receptors:
  - Ecological receptors: soil, sediment, surface water
  - Human receptors: groundwater aquifer, fish tissue

Preliminary Findings: What are the primary risk drivers?

Risk Ratios (Avg Concentration/Screening Value) Shown

	Soil		Sediment	Surface Water		Groundwater**
	Eco	HH (Recreator)	Eco	Eco	HH (WQS)	HH
PCBs	42	< 1	54 (aquatic) 231 (wildlife)	6 (aquatic) 713 (wildlife)	2	21 (A-1232)*** 3 (A-1242)***
HMWPAHs	18	< 1	21		--	--
Cadmium	31	< 1	1	2	< 1	3
TCE	--	--	--	--	--	90
Vinyl Chloride	--	--	--	--	--	9

* Primary risk drivers: constituents with risk ratios > 20

**Groundwater – unfiltered

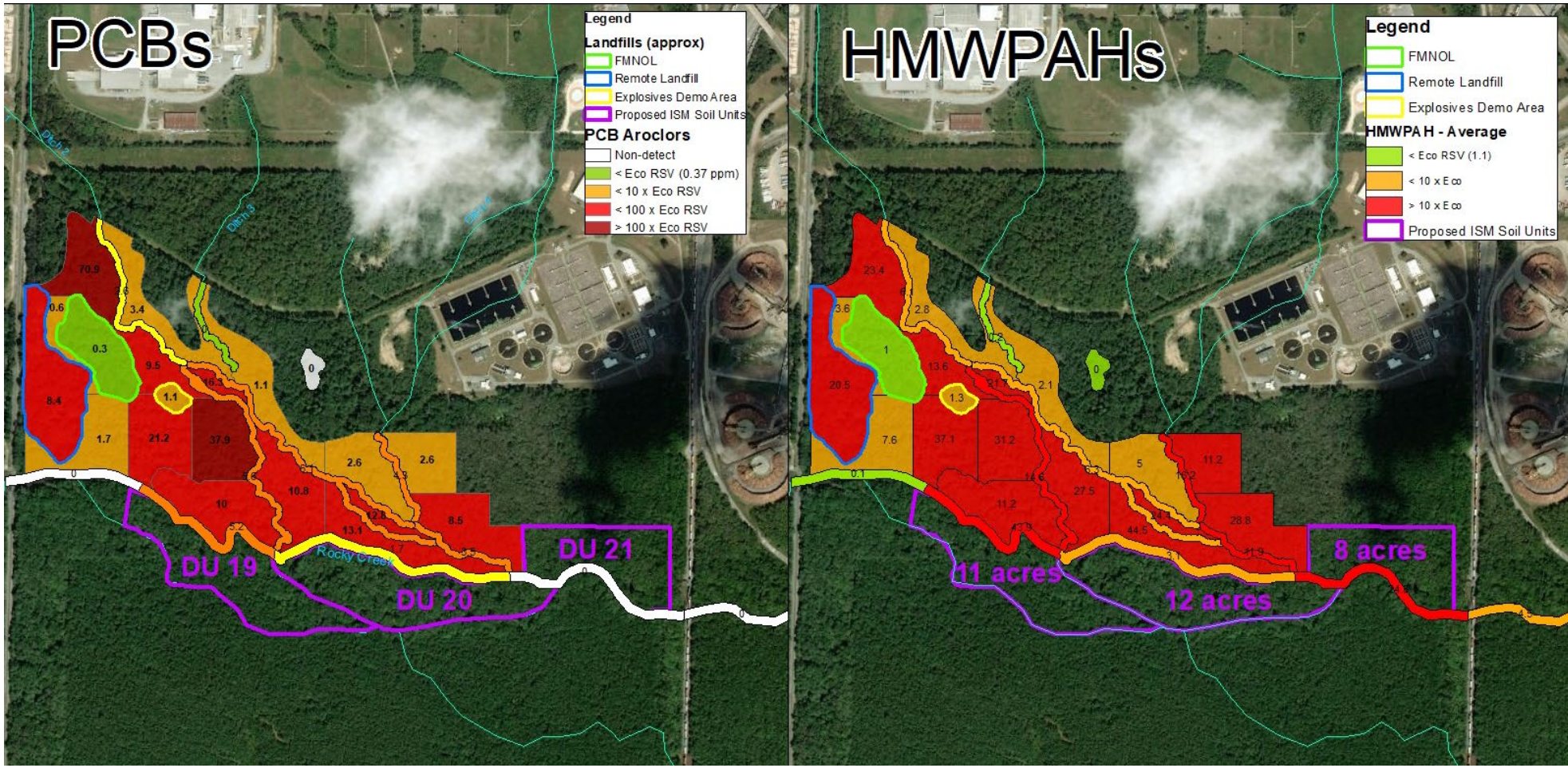
*** Detected in 3 of 21 wells

Proposed Additional Sampling

- Additional soil ISM sampling at Rocky Creek
- Additional soil ISM sampling for PCBs northwest of existing sampling units
- Groundwater monitoring well installation/sampling east of the landfills

Rocky Creek ISM Sampling

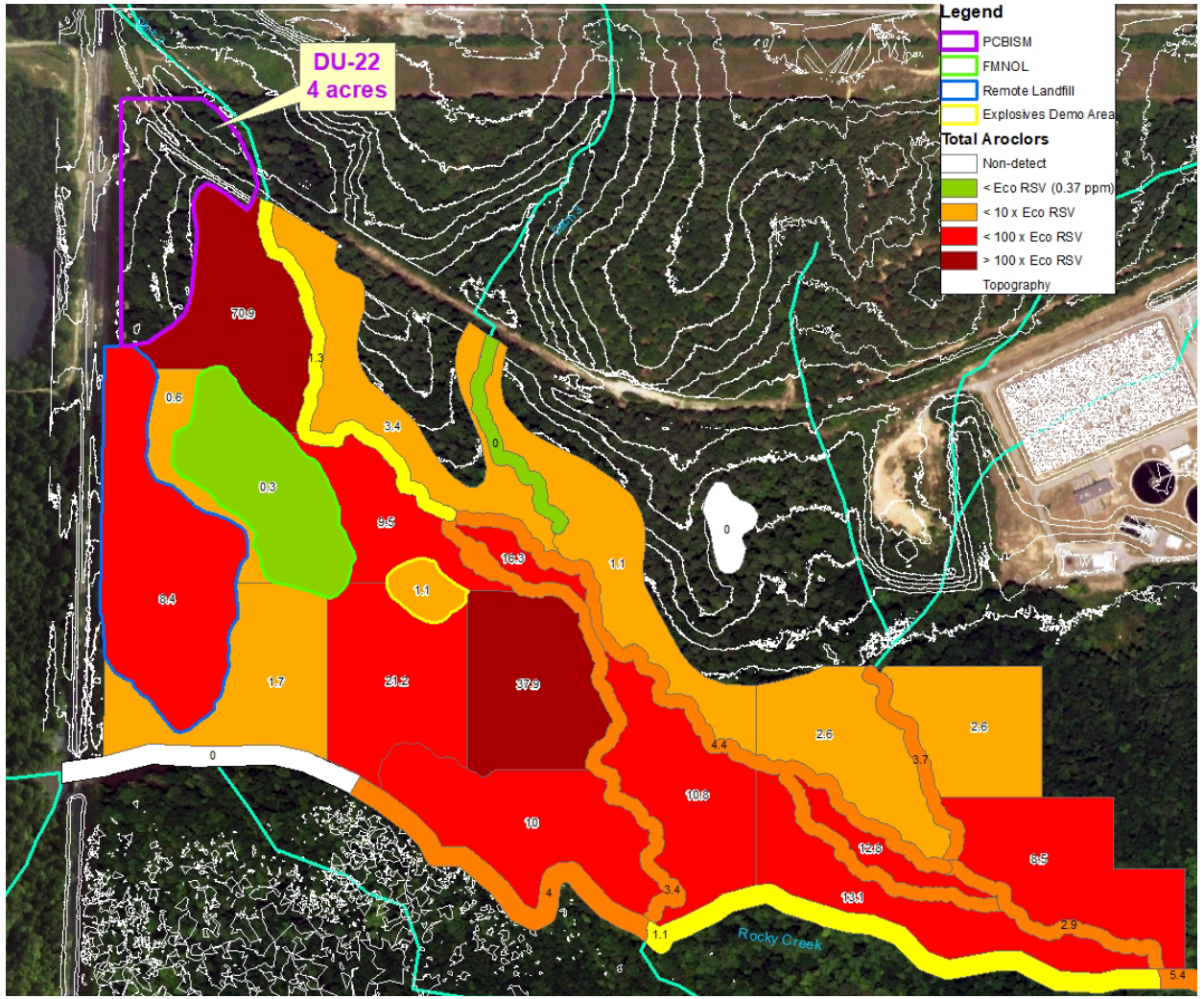
- 3 New ISM Decision Units
- Analyze for:
  - PCB (Aroclor)
  - PCB (Congener)
  - HMWPAHs
  - Cadmium
- Need low-flow conditions



EPA request: reshape ISM unit to follow Ditch 2 to the corner of OU2

Northwest ISM PCB Sampling

- 1 New ISM Decision Units
- Higher ground area
- Analyze for:
  - PCBs



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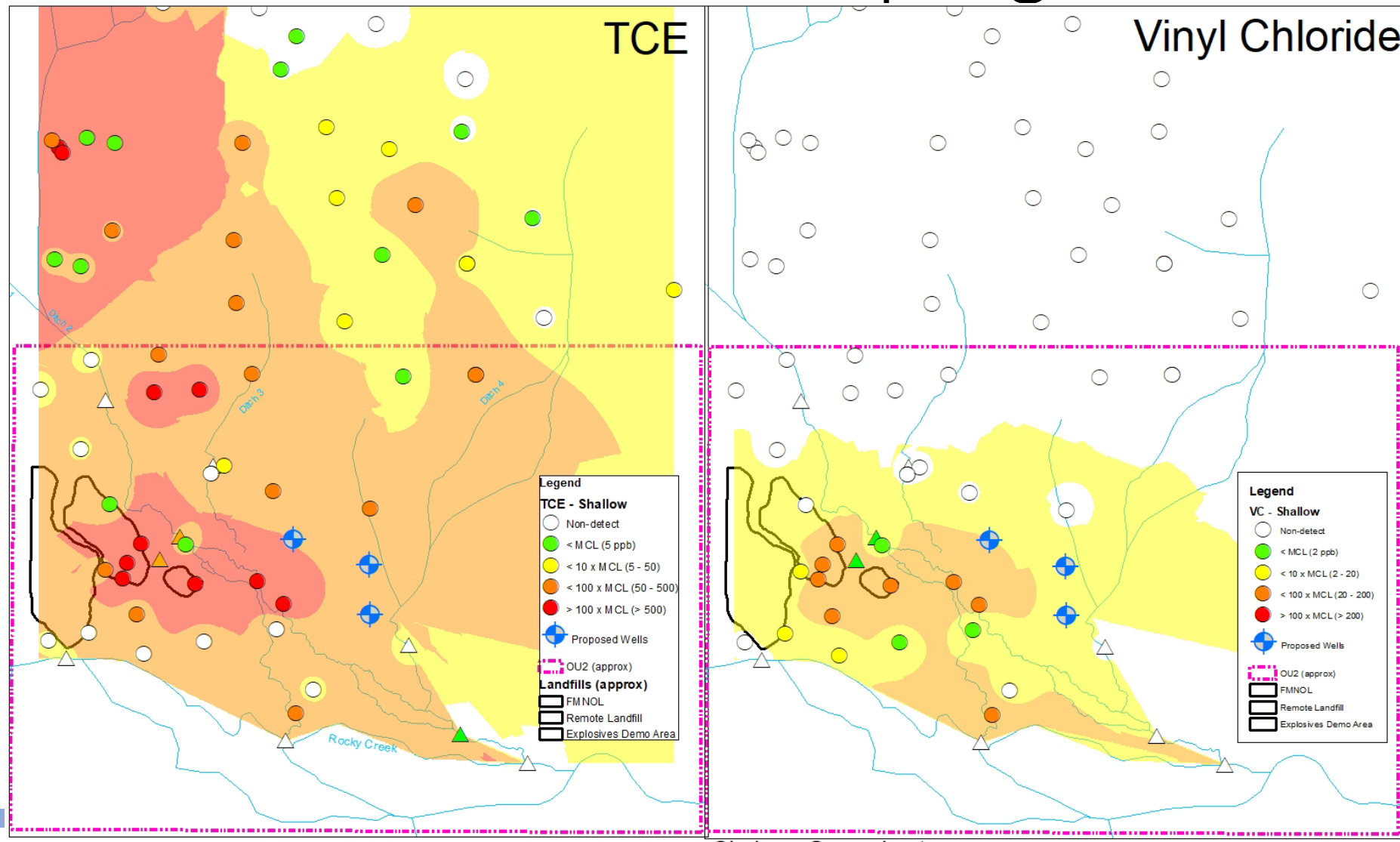
Shallow/Perched Groundwater Sampling

- Investigate easterly concentration gradient – along confining unit surface
- Install 3 shallow monitoring wells (possible locations shown)
- Analyze for chlorinated ethenes (TCE, cis-DCE, VC)
- Possibly collect Shelby Tube sample of confining layer for geotechnical testing (e.g., permeability)



Path Forward and Estimated Time Line

- EPA approval of strategy for fish processing/analysis (July)
- Send fish composites to laboratory for analysis (July)
- Submit RI Work Plan Addendum with details of additional sampling (July)
- Conduct RI Work Plan Addendum Field Work (Aug/Sept)
- Submit Preliminary Risk Documents (Fall)
  - HH: Submit COPC and Exposure Memos
  - Eco: Combine SLERA, Problem Formulation and Study Design into one submittal (Steps 1-4)
- Submit Site Characterization Summary Report (60 days after receipt of lab data – Dec)
- Continue with Ecological risk process (field work)
- Submit RI Report (180 days after last day in field – timing will depend on ecological risk process)

Tasks

- EPA to review fish memo and get back to EPS
- EPS to send presentation to EPA
- EPA to provide any additional feedback based on presentation or other materials
- EPS to prepare/submit RI Addendum of proposed sampling